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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,308	07/05/2005	Kinya Kawase	050390	8134
23850	7590	11/03/2008		EXAMINER
KRATZ, QUINTOS & HANSON, LLP				ZHU, WEIPING
1420 K Street, N.W.				
Suite 400			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005			1793	
			MAIL DATE	DELIVERY MODE
			11/03/2008	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/541,308	KAWASE ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	WEIPING ZHU	1793	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 27 October 2008.

2a) This action is **FINAL**.                    2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1,2,5,6,9-11,14,15 and 18-27 is/are pending in the application.

4a) Of the above claim(s) 10,11,14,15,18-21 and 25-27 is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1, 2, 5, 6, 9 and 22-24 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:

- Certified copies of the priority documents have been received.
- Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
- Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.

4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.

5) Notice of Informal Patent Application

6) Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Status of Claims***

1. Claims 1, 2, 5, 6, 9 and 22-24 are currently under examination, wherein no claim has been amended in applicant's amendment filed on August 14, 2008.

The Terminal Disclaimer filed by the applicant on August 14, 2008 has been acknowledged.

### ***Status of Previous Rejections***

2. The previous rejections of claims 1, 2, 5, 6, 9 and 22-24 under 35 U.S.C. 103(a) as stated in the Office action dated May 14, 2008 have been maintained. The previous provisional rejections of claims 1, 2, 5, 6, 9 and 22-24 on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-16 of copending Application No. 10/992,466 as stated in the Office action dated May 14, 2008 have been withdrawn in light of the Terminal Disclaimer filed by the applicant on August 14, 2008.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 2, 5, 6, 9 and 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 06-041609 in view of Svilar et al. (US 4,731,118) as stated in the Office action dated May 14, 2008.

***Response to Arguments***

4. The applicant's arguments filed on August 14, 2008 have been fully considered but they are not persuasive.

The applicant argues that there is no suggestion in JP ('609) to use any copper alloy instead of the pure copper; the copper alloy of Svilar et al. ('118) is used only to infiltrate a sintered Fe alloy; and there is no motivation to substitute the electrolytic copper in JP ('609) with the copper alloy in Svilar et al. ('118). In response, the examiner notes that the ground of rejection of the claimed method relies on the teaching of JP ('609) rather than Svilar et al. ('118). Svilar et al. ('118) is only relied upon for the teaching of the copper alloy. It would have been obvious to one of ordinary skill in the art at the time the invention was made that the function of the infiltrant of Svilar et al. ('118) would be similar to that of the alloying powder of JP ('609) in terms of making a ferrous sintered alloy with desired properties. It is further noted that Svilar et al. ('118) discloses that the ferrous powder metal can be infiltrated by either a copper or copper alloy infiltrant (col. 4, lines 6-20), suggesting that either pure copper or a copper alloy can be used as the infiltrant to improve the properties of the ferrous powder metal parts as desired. Therefore, the motivation to substitute the pure copper of JP ('609) with the copper alloy of Svilar et al. ('118) in the process of JP ('609) as stated in the Office action dated May 14, 2008 is proper and maintained.

***Conclusion***

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Weiping Zhu whose telephone number is 571-272-6725. The examiner can normally be reached on 8:30-16:30 Monday to Friday.

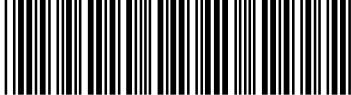
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Roy King/  
Supervisory Patent Examiner, Art  
Unit 1793

WZ

10/27/2008

<b>Application Number</b> 	Application/Control No.	Applicant(s)/Patent under Reexamination
	10/541,308 <b>Examiner</b> WEIPING ZHU	KAWASE ET AL. <b>Art Unit</b> 1793